## PNM San Juan Generating Station Refined BART Visibility Results November 5, 2007

#### Introduction

PNM submitted its BART engineering and modeling application dated June 6, 2007 for San Juan Generating Station (SJGS) Units 1-4. The conclusion of this study was that the SCR and SNCR/SCR Hybrid systems minimally impact visibility improvements and would require significant capital expenditure and modifications that will impact many areas of the plant including boiler draft systems, air heater performance, SO<sub>3</sub> emissions, and ash handling. Therefore, LNB, OFA and NN were recommended as BART for NO<sub>x</sub> control on the SJGS units. Since the submittal of the BART report, PNM has investigated additional refinements to the BART CALPUFF air dispersion modeling analyses. These refinements include nitrate repartitioning and more realistic ammonia background concentrations. These two refinements are described in more detail below.

### **Nitrate Repartitioning**

The first refinement for the SJGS BART visibility analyses was to better account for the amount of particulate nitrate (NO<sub>3</sub>) by limiting the available ammonia when individual unit puffs overlap. The original visibility modeling did not incorporate repartitioning of available ammonia (MNITRATE = 0). However, the refinements did not allow each overlapping puff(s) to use the full ammonia background value but instead only a portion of the ammonia available (MNITRATE = 1). This concept is reflected in Section 3.1.2.6 of the WRAP protocol.

#### **Ammonia Background Concentration**

As described in Section 8.1 of the BART application, the air dispersion modeling analyses presented were conducted in accordance with the CALMET/CALPUFF Protocol for BART Exemption Screening Analysis for Class I Areas in the Western United States dated August 15, 2006, (hereinafter referred to as the WRAP Protocol). Specifically, the SJGS BART modeling was performed using the same high fixed background ammonia level of 1 ppb that was used for the initial modeling performed by WRAP RMC. However, there is limited real-time or historic ambient concentration information for ammonia within the modeling domain and at the individual Class I areas from sources such as CASNET which could be used to verify whether the assumed 1 ppb ammonia background concentration is representative. In fact colder temperatures and limited

agriculture activity, among other variables, could limit the amount of ammonia present in the ambient atmosphere and that which would be available to chemically react to form sulfates and nitrates to reduce visibility. Section 3.1.2.6 of WRAP protocol indicates that the 1 ppb value would be initially used and the issue revisited at a later time:

Thus, based on the fact that western Class I areas tend to be either more arid or forest land than grassland we proposed to initially use a 1 ppb background ammonia value for the CALPUFF runs. We will then revisit the background ammonia values for the Class I areas for the post processing step and provide the CALPUFF output to the States so they can investigate alternative background ammonia values if desired.

No additional information from the WRAP regarding refined ammonia background concentrations was available. Therefore, an investigation was completed to locate more realistic ammonia background values. The Sithe Global Power, LLC's Desert Rock Energy Facility and the Toquop Energy Project visibility analyses located in the southwestern U.S. used variable monthly background ammonia concentrations. Based on this information, refinements to SJGS's BART modeling reflected these previously used values which have been included in Table 1 for reference.

Variable Mor	ble 1 nthly Ammonia Concentration
Month	Background Ammonia Concentration (ppb)
January	0.2
February	0.2
March	0.2
April	0.5
May	0.5
June	1.0
July	1.0
August	1.0
September	1.0
October	0.5
November	0.5
December	0.5

#### **Visibility Summary**

Based on the aforementioned refinements in background ammonia concentrations and nitrate repartitioning revised CALPUFF visibility modeling was performed. It is important to note that all other modeling options as described in the BART application were unchanged. The results of the refined visibility modeling, assuming the same control technology is installed on all four units, are illustrated in Tables 2 and 5. These tables summarize the scenarios and the maximum visibility (deciview) impact seen at any of the 16 Class I areas at any time over the 2001 to 2003 period. The results of this analysis, using the aforementioned refinements, indicates a decrease in visibility impact at each of the 16 Class I areas from those visibility impacts indicated in the BART application document. Of particular interest, the visibility impacts at Mesa Verde represent the maximum visibility impact at any of the Class I areas. However, these impacts also decrease from those impacts previously reported. For the two control scenarios, the visibility impacts are greater than the baseline's visibility impact. Thus, there is no visibility improvement realized.

The maximum visibility (deciview) improvement seen at any of the 16 Class I areas at any time over the 2001 to 2003 period is illustrated in Table 6 for each scenario. The expected degree of visibility improvement for each control scenario for each unit analyzed was determined by the difference in the maximum visibility improvement for each receptor at each of the sixteen Class I areas. Again, it is important to note that the control technology associated with the consent decree formulated the SJGS's baseline case for the purposes of this analysis. Additionally, the cost-effectiveness for the potential BART control technologies from the BART application were used to for the determination of the visibility improvement cost-effectiveness in \$/deciview (\$/dv). Three major scenarios are shown in the visibility improvement cost effectiveness summary in Table 6:

- 1.0 Pre-consent decree to consent decree.
- 2.0 Consent decree to additional NO<sub>x</sub> control technology alternatives scenario.
- 3.0 Pre-consent decree to additional NO<sub>x</sub> control technology alternatives scenario.

These maximum visibility improvements between the consent decree and the two control scenarios range from 0.01 dv to 0.38 dv of expected visibility improvement above the consent decree technology baseline case. The results indicate that adding additional  $NO_x$  control technology beyond the consent decree does not yield a significant visibility improvement (> 0.5 dv) at any Class I area.

Based on the visibility improvement modeled and the total annual cost evaluated in the impact analysis stage of the BART application document, the cost-effectiveness for visibility improvement (annual cost per improvement in visibility, \$/dv), was determined for SJGS. The costs for installation of SCRs for all four units is \$256 million/dv while the costs to install a hybrid system is \$587 million/dv. These minimal visibility improvements do not merit the large capital expenditure required to install SCR or SNCR/SCR Hybrid. In addition to the prohibitive cost associated with SCR and SNCR/SCR Hybrid, there are other important reasons that LNB, OFA and NN should be considered BART for the SJGS units. First, the LNB, OFA and NN systems being installed to meet the consent decree are state-of-the-art combustion controls. State-ofthe-art combustion controls comprising of LNB, OFA and NN technologies were used to form the basis for the BART presumptive limits for NO<sub>x</sub> in the BART guidelines. Second, installation of SCR or SNCR/SCR Hybrid uses ammonia to reduce NO<sub>x</sub> emissions. Specifically, in a SCR system, ammonia is injected into the flue gas stream just upstream of a catalytic reactor. The ammonia molecules in the presence of the catalyst dissociate NO<sub>x</sub> into nitrogen and water. Any unreacted ammonia passes through the reactor and out the stack as ammonia emissions or ammonia slip. This additional ammonia would then be available to add to the ammonia background concentration, chemically react to form nitrates and sulfates and potentially further increase the visibility impacts at the Class I areas. The additional ammonia slip was not considered in this analysis. Finally, the visibility results imply that visibility impacts are influenced more by the SJGS's sulfur emissions (SO<sub>2</sub> and additional SO<sub>3</sub> from the NO<sub>x</sub> control devices) than by the reduction of NO<sub>x</sub>. However, sulfur emissions are not subject to BART requirements because New Mexico participates in the WRAP emissions trading program. Therefore, LNB, OFA and NN should be considered BART for NO<sub>x</sub> control on the SJGS units.

A summary of the 98th percentile visibility impact for the four modeled technology scenarios (i.e., Pre-Consent Decree, Consent Decree, SCR, and hybrid scenarios) and include the number of days above 0.5 dv threshold and the contribution of each pollutant associated with the 98th percentile visibility impact for each class I area has been included as Attachment 1.

#### Conclusion

As previously noted in the BART analysis, the recommended BART control for SJGS is LNB, OFA, and a NN for NO<sub>x</sub> control and PJFF for PM control.

Table 2
Pre-Consent Decree Modeling Results
New Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.92	1.76	1.82	1.83	1.92
Bandelier	1.31	1.86	1.51	1.56	1.86
Black Canyon	1.14	1.34	1.40	1.29	1.40
Canyonlands	2.59	2.04	2.00	2.21	2.59
Capitol Reef	1.97	1.16	1.34	1.49	1.97
Grand Canyon	1.14	0.93	0.81	0.96	1.14
Great Sand Dunes	0.85	1.00	0.82	0.89	1.00
La Garita	1.15	1.30	1.14	1.20	1.30
Maroon Bells	0.67	0.78	0.63	0.70	0.78
Mesa Verde	4.20	4.09	4.85	4.38	4.85
Pecos	1.40	1.33	1.26	1.33	1.40
Petrified Forest	1.13	0.79	0.74	0.88	1.13
San Pedro	1.78	2.37	1.96	2.04	2.37
West Elk	0.99	1.15	0.94	1.03	1.15
Weminuche	1.51	1.85	1.69	1.69	1.85
Wheeler Peak	1.00	0.95	1.05	1.00	1.05
Overall				1.53	4.85

Table 3
Baseline (Consent Decree) Visibility Modeling Results
New Ammonia Background and Nitrate Repartitioning
98th Percentile for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.69	1.65	1.49	1.61	1.69
Bandelier	1.04	1.56	1.20	1.27	1.56
Black Canyon	0.95	1.15	1.07	1.05	1.15
Canyonlands	2.26	1.73	1.68	1.89	2.26
Capitol Reef	1.81	0.82	1.05	1.23	1.81
Grand Canyon	0.97	0.76	0.57	0.77	0.97
Great Sand Dunes	0.63	0.71	0.64	0.66	0.71
La Garita	0.86	0.94	0.90	0.90	0.94
Maroon Bells	0.54	0.56	0.51	0.54	0.56
Mesa Verde	3.38	3.53	3.80	3.57	3.80
Pecos	1.05	1.09	1.00	1.05	1.09
Petrified Forest	0.82	0.60	0.53	0.65	0.82
San Pedro	1.40	2.01	1.56	1.66	2.01
West Elk	0.80	0.91	0.83	0.85	0.91
Weminuche	1.15	1.48	1.34	1.33	1.48
Wheeler Peak	0.75	0.86	0.89	0.83	0.89
Overall				1.24	3.80

Table 4
SCR Visibility Modeling Results
New Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.72	1.41	1.48	1.54	1.72
Bandelier	0.94	1.30	1.23	1.16	1.30
Black Canyon	0.82	0.83	0.92	0.85	0.92
Canyonlands	2.38	1.73	1.92	2.01	2.38
Capitol Reef	1.43	0.76	0.98	1.06	1.43
Grand Canyon	0.73	0.60	0.56	0.63	0.73
Great Sand Dunes	0.58	0.55	0.47	0.53	0.58
La Garita	0.62	0.70	0.67	0.66	0.70
Maroon Bells	0.42	0.42	0.34	0.39	0.42
Mesa Verde	5.34	5.32	6.00	5.55	6.00
Pecos	0.85	0.99	0.92	0.92	0.99
Petrified Forest	0.73	0.53	0.55	0.61	0.73
San Pedro	1.73	2.05	1.83	1.87	2.05
West Elk	0.64	0.66	0.62	0.64	0.66
Weminuche	1.14	1.61	1.45	1.40	1.61
Wheeler Peak	0.69	0.65	0.66	0.67	0.69
Overall				1.28	6.00

Table 5
Hybrid Visibility Modeling Results
New Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.75	1.59	1.61	1.65	1.75
Bandelier	1.03	1.52	1.27	1.27	1.52
Black Canyon	0.91	1.03	1.06	1.00	1.06
Canyonlands	2.41	1.72	1.89	2.01	2.41
Capitol Reef	1.67	0.74	1.13	1.18	1.67
Grand Canyon	0.87	0.71	0.64	0.74	0.87
Great Sand Dunes	0.72	0.72	0.58	0.67	0.72
La Garita	0.79	0.85	0.82	0.82	0.85
Maroon Bells	0.53	0.55	0.45	0.51	0.55
Mesa Verde	5.17	5.07	5.55	5.26	5.55
Pecos	0.93	1.01	1.00	0.98	1.01
Petrified Forest	0.79	0.56	0.58	0.64	0.79
San Pedro	1.69	2.14	1.81	1.88	2.14
West Elk	0.72	0.80	0.74	0.75	0.80
Weminuche	1.17	1.72	1.34	1.41	1.72
Wheeler Peak	0.81	0.77	0.84	0.81	0.84
Overall				1.35	5.55

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	Max	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)	lodeling Results ( 2, see Note 1)	(AP)	Calculat	Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Arca)	Visibility Improvements (dv)	s (dv) is (for each Class	l Arca)			Improvement (\$/dv) (see Note 4)		
	Pro-Concent				Pre-Consent				Pre-Consent	Pre-Consent	4		,	í
Class I Area	Decree	Consent Decree	SCR	Hybrid	Consent Decree	to SCR	to Hybrid	Decree to SCR	Decree to Hybrid	Decree to Consent	Consent Decree to SCR	Decree to Consent Consent Decree to  Decree  SCR  Hybrid	Pre-Consent Decree to SCR	Pre-Consent Decree to Hybrid
Arches	1.92	1.69	1.72	1.75	0,23	Z	Z	0.20	0.17	224,751,092	NA	VΑ	751,691,919	792,941,176
Bandelier	1.86	1.56	1,30	1.52	0.31	0.26	0.04	0.57	0.35	167,648,208	374,488,462	2,136,717,949	262,495,591	389,595,376
Black Canyon	1.40	1.15	0.92	1.06	0.26	0.23	0.09	0.49	0.34	201,835,294	421,502,165	957,839,080	306,244,856	394,152,047
Canyonlands	2.59	2.26	2.38	2.41	0.33	Z	Z	0.21	0.17	158,363,077	NA	NA	715,552,885	774,712,644
Capitol Reef	1.97	1.81	1.43	1.67	0.16	0.38	0.14	0.54	0:30	319,677,019	256,228,947	586,845,070	275,110,906	444,884,488
Grand Canyon	1.14	0.97	0.73	0.87	0.17	0.24	0.10	0.41	0.27	304,544,379	409,105,042	816,980,392	365,687,961	497,416,974
Great Sand Dunes	1.00	0.71	0.58	0.72	0.29	0.13	Z	0.42	0.28	179,331,010	726,619,403	NA	353,527,316	481,428,571
La Garita	1.30	0.94	0.70	0.85	0.36	0.24	0.09	09'0	0.45	142,966,667	402,342,975	905,782,609	247,234,219	298,230,088
Maroon Bells	0.78	0.56	0.42	0.55	0.22	0.14	0.01	0.36	0.23	236,091,743	705,557,971	9,259,111,111	418,075,843	593,832,599
Mesa Verde	4.85	3.80	00.9	5.55	1.06	Z	ï	Z	Z	48,692,526	NA	NA	NA	NA
Pecos	1.40	1.09	66.0	1.01	0,31	0.11	80.0	0.41	0.39	168,196,078	901,546,296	1,004,000,000	359,504,831	346,529,563
Petrified Forest	1.13	0.82	0.73	0.79	0.31	80'0	0.03	0.40	0.34	165,491,961	1,159,130,952	3,205,076,923	376,797,468	400,000,000
San Pedro	2.37	2.01	2.05	2.14	0.36	Z	Z	0.32	0.24	142,966,667	NA	ΝΑ	466,567,398	573,617,021
West Elk	1.15	0.91	99'0	08'0	0.24	0.26	0.11	0.49	0,35	216,252,101	381,831,373	737,451,327	301,896,552	384,045,584
Weminuche	1.85	1.48	19'1	1.72	0.37	ž	Z	0.24	0.14	138,727,763	NA	NA	625,357,143	998,518,519
Wheeler Peak	1.05	0.89	0.69	0.84	0.16	0.20	0.05	0.36	0.21	323,698,113	477,289,216	1,543,185,185	410,013,774	632,863,850
Notes								<b>V</b>						
	Maximum of 200	<ol> <li>Maximum of 2001, 2002 and 2003 visibility data taken from Tables 1-4 for each Class I Area.</li> </ol>	risibility data take	en from Tables 1	4 for each Class l	l Arca.								
2.	2. NI = No Improvement	ment												
	<ol> <li>NA = Not Applicable</li> <li>Total Annualized Cos</li> </ol>	<ol> <li>NA = Not Applicable</li> <li>Total Annualized Costs used in calculating Improvement</li> </ol>	ulating Improvem		are as follows (in \$1,000):									
	Pre-Consent Deer	Pre-Consent Decree to Consent Decree	rcc		\$51,468									
	Consent Decree to SCR	o SCR Hrhrid			\$97,367									
	Pre-Consent Decree to SCR	ce to SCR			\$148,835									
	Pre-Consent Decree to Hybrid	ce to Hybrid			\$134,800									

# **Attachment 1**

Pre-Consent Decree (4)  Casas Area No. of Days > 0.5 ch 98th Percentile   % SCM   % NO3   % OC   % EC   % PMC   % PMF   % Total ARCH   59   1.92   71.14   23.07   1.46   0.89   1.08   2.36   100   BLCA   40   1.14   52.28   45.03   0.71   0.44   0.43   1.13   100   BLCA   40   1.14   52.28   45.03   0.71   0.44   0.43   1.13   100   CARTE   31   1.97   51.54   43.71   1.15   0.71   1.05   1.65   1.83   100   CARTE   31   1.97   51.54   43.71   1.15   0.71   1.05   1.65   1.83   100   CARTE   31   1.97   51.54   43.71   1.15   0.71   1.05   1.65   1.83   100   CARCA   4.3   1.15   42.20   54.22   0.42   0.09   0.55   0.655   0.655   1.45   1.05   LAGA   3.5   1.15   42.48   54.54   0.77   0.47   0.50   1.24   1.09   MABE   16   0.67   41.50   54.30   1.08   0.66   0.76   1.70   100   MEVE   164   4.20   84.29   1.94   9.21   1.97   3.57   5.03   100   PECO   53   1.40   43.19   52.60   1.08   0.66   0.76   1.71   100   PECO   53   1.40   43.19   52.60   1.08   0.66   0.76   1.71   100   WEEL   54   0.09   40.76   54.57   1.20   0.73   0.655   1.80   100   WEEL   54   0.09   40.76   54.57   1.20   0.73   0.655   1.80   100   WEEL   54   0.09   40.76   54.57   1.20   0.73   0.655   1.80   100   WEEL   54   0.09   40.76   63.57   1.20   0.73   0.655   1.80   100   WEEL   54   0.09   40.76   63.57   1.20   0.73   0.655   1.80   100   WEEL   54   0.09   40.76   63.57   1.20   0.73   0.655   1.80   100   WHIPE   77   1.00   32.06   63.01   1.28   0.78   0.76   2.22   100   Cansel Decree (3)  Cansel Decree (3)  Cansel Decree (3)  Cass   Kree No. of Days > 0.5 dV 88th Percentile % SCM   % NO3   % OC   % EC   % PMF   % PMF   % Total   % NO3   %	New NH3 B 2001	BART Modeling ackground and Nitrat	e Repartitioning							
ARCH   59			108th Dercentile	1 % SO4	T % NO3	T % OC	T % EC	T % PMC	I % DME	I % Total
BAND 70   1.131   33.48   59.51   1.32   0.811   0.83   2.06   100   BLCA 40   1.14   52.26   45.03   0.71   0.44   0.43   1.13   100   CANY 80   2.59   66.05   28.999   1.51   0.92   1.08   2.44   100   CANY 80   2.59   66.05   28.999   1.51   0.92   1.08   2.44   100   CARE 31   1.97   51.54   43.71   1.15   0.71   1.08   1.48   100   GRCA 14   1.14   42.20   42.25   0.090   0.55   0.055   1.65   1.45   100   GRCA 15   1.14   42.20   42.25   0.090   0.55   0.055   1.45   100   GRCA 25   0.56   7.73   65.43   2.77   1.46   1.090   3.74   100   MABE 18   0.47   41.50   54.30   1.08   0.66   0.76   1.70   100   MEVE 184   4.20   84.29   1.94   2.21   1.47   3.57   5.59   100   PECO 53   1.40   43.10   52.60   1.08   0.66   0.76   1.70   100   MEVE 194   111   1.78   79.88   8.73   2.70   1.65   2.83   4.20   100   WEEL 34   0.99   40.76   54.57   1.20   0.73   0.85   1.89   100   WEEL 34   0.99   40.76   54.57   1.20   0.73   0.85   1.89   100   WEMI 74   1.51   26.70   65.76   1.53   0.94   1.66   2.20   1.08   0.66   0.76   1.71   100   WEMI 74   1.51   26.70   65.76   1.53   0.94   1.66   2.20   1.00   0.66   0.76   1.70   0.76										
BLCA										
CANY   60   2.59   65.06   28.99   15.15   0.92   1.08   2.44   100   GRCA   14   1.14   4.22   34.25   0.90   0.55   0.65   14.56   100   GRCA   14   1.14   4.22   34.25   0.90   0.55   0.65   14.56   100   0.56   0.65   14.56   100   0.56   0.65   14.56   100   0.56   0.65   14.56   100   0.56   0.65   14.56   100   0.56   0.65   14.56   100   0.56   0.65   0.65   14.56   100   0.56   0.65   0.65   0.65   14.56   100   0.66   0.76   1.70   1.70   0.76										
GRSA 144 1.14 4.220 54.25 0.00 0.55 0.65 1.145 100 CRSA 23 0.85 7.73 11 14.09 2.38 1.48 1.09 3.75 100 LAGA 35 11.15 42.48 54.54 0.77 0.47 0.50 1.124 100 MEVE 184 2.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 184 4.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 184 4.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 184 4.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 184 4.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 1.94 4.20 84.29 1.94 32.11 1.97 3.57 5.53 100 MEVE 1.94 32.11 1.97 3.57 5.50 3.10 3.00 MEVE 1.94 3.00 MEVE 1.94 3.90 3.10 3.00 6.00 7.09 1.11 1.20 3.00 1.00 MEVE 1.94 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.0		80	2.59	65.05	28.99		0.92	1.08		100
GRSA 23 0.85 77.31 14.03 2.38 1.46 1.09 3.75 100 LAGA 35 11.15 42.48 55.4 0.77 0.47 0.50 1.24 100 MABE 16 0.67 41.50 54.30 1.08 0.66 0.76 1.70 100 MABE 16 0.67 41.50 54.30 1.08 0.66 0.76 1.70 100 PECO 53 1.40 43.19 52.60 1.08 0.66 0.76 1.71 100 PECO 53 1.40 43.19 52.60 1.08 0.66 0.76 1.71 100 SAPE 111 1.78 79.85 8.73 2.70 1.65 2.83 4.20 100 WELL 34 0.99 40.76 54.77 1.20 0.73 0.85 1.89 100 WELL 34 0.99 40.76 54.77 1.20 0.73 0.85 1.89 100 WELL 34 0.99 40.76 54.77 1.20 0.73 0.85 1.89 100 WELL 34 1.51 2.870 68.76 1.53 0.54 1.86 2.40 100 WELL 34 0.99 40.76 54.77 1.20 0.73 0.85 1.89 100 WELL 37 1.00 32.06 53.10 1.28 0.76 0.73 0.85 1.89 100 WELL 37 1.00 32.06 53.10 1.28 0.76 0.76 0.76 1.00  Consent Decree (3) Cassal Area No. O Days > 0.5 ol 98 Percentile % SO4 % NO.3 % 0.0 % EC % PMC % PMF % Total ARCH 47 1.69 33.57 62.13 1.88 0.48 0.48 1.46 100 BAND 49 1.04 30.40 66.83 1.26 0.32 0.23 1.09 11 100 BLCA 26 0.96 37.13 67.66 2.28 0.58 0.58 1.76 100 CARE 28 1.81 52.95 42.88 1.26 0.56 0.56 0.58 1.76 100 CARE 28 1.81 52.95 42.88 1.18 0.49 0.48 1.49 100 GRSA 14 0.63 38.62 42.88 1.18 0.49 0.48 1.49 100 GRSA 14 0.63 38.62 4.28 1.18 0.49 0.48 1.49 100 GRSA 14 0.63 38.62 4.28 1.18 0.49 0.48 1.49 100 GRSA 14 0.63 38.62 6.41 2.29 0.59 0.43 1.83 100 MABE 10 0.54 69.46 2.541 2.29 0.59 0.43 1.83 100 MABE 10 0.54 69.46 2.541 2.29 0.59 0.43 1.83 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MABE 10 0.54 69.46 2.541 2.29 0.59 0.43 1.83 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MABE 10 0.54 69.46 2.541 2.29 0.59 0.43 1.83 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MEVE 157 3.38 7.53 8.60 0.51 1.541 1.83 0.47 0.55 1.75 0.65 100 MEVE 157 0.53 8.60 0.50 1.75 0.60 0.60 0.50 1.70 1.00 0.55 1.70 0.00 0.55 1.70 0.00 0.55 1.70 0.00 0.55 1.70 0.00 0.55 1.70 0.00 0.55 1.70 0.00 0.55 1.70		31	1.97	51.54	43.71	1.15	0.71		1.83	100
LAGA   35										
MABE   16										
MEVE										
PECO 53 1.40 43.19 52.00 1.08 0.66 0.76 1.71 100 SAPE 111 1.78 79.88 8.73 2.70 1.65 2.83 4.20 100 WEEL 34 0.99 40.76 \$45.75 1.20 0.73 0.85 1.99 100 WEHM 74 1.51 26.70 66.76 1.53 0.94 1.66 2.40 100 WHPE 37 1.00 22.06 63.10 1.28 0.78 0.76 0.76 0.20 100 WHPE 37 1.00 22.06 63.10 1.28 0.98 1.66 2.40 100 Consent Decree (3) Class I Area No of Days > 0.5 dv 98th Percentile \$ .804 \$ .803 \$ .804 0.48 0.48 1.46 100 BAND 49 1.04 30.40 66.83 1.26 0.32 0.33 0.84 1.46 100 BAND 49 1.04 30.40 66.83 1.26 0.58 0.56 1.76 100 CARY 67 2.26 5.566 38.57 2.53 0.65 0.65 0.65 1.76 100 CARY 67 2.26 5.566 38.57 2.53 0.65 0.60 1.99 100 CARE 28 1.81 5.25 4.26 1.91 0.49 0.44 1.46 100 GACA 12 0.07 3.814 5.95 0.33 0.24 0.19 0.75 100 MAGE 10 0.54 89.84 5.541 2.29 0.59 0.43 1.80 100 MEEC 10 0.54 89.84 5.541 2.29 0.59 0.43 1.80 100 MEEC 157 3.89 1.50 8.33 5.75 2.51 1.80 0.49 0.48 1.46 100 CARY 67 2.26 5.566 3.80 5.75 0.80 0.50 0.02 1.99 100 CARE 28 1.81 5.25 4.26 1.91 0.49 0.44 1.40 1.00 CARE 10 0.54 89.84 5.541 2.29 0.59 0.43 1.80 100 MAGE 10 0.54 89.84 5.541 2.29 0.59 0.43 1.80 100 MEEC 157 3.38 1.75 9.0 8.4 6.28 1.80 0.20 0.40 1.40 1.00 1.00 1.00 1.00 1.00 1.0										
PEFO 188 1.13 84.94 9.80 1.30 0.79 1.11.1 2.06 1.00 1.00 SAPE 111 1.78 79.88 8.73 2.70 1.65 2.83 4.20 100 WEBL 34 0.99 40.76 54.57 120 0.73 0.85 1.89 100 WEBL 37 1.00 32.06 83.10 1.28 0.78 0.76 2.02 100 WEBL 37 1.00 32.06 83.10 1.28 0.78 0.76 2.02 100 WEBL 37 1.00 32.06 83.10 1.28 0.78 0.76 2.02 100 WEBL 37 1.00 32.06 83.10 1.28 0.78 0.76 2.02 100 MEM 1.04 1.05 1.00 32.06 83.10 1.28 0.78 0.76 2.02 100 MEM 1.04 1.05 1.00 32.06 83.10 1.28 0.78 0.78 0.76 2.02 100 MEM 1.04 1.05 1.00 1.00 1.00 1.00 1.00 1.00 1.00										
SAPE										
WEEL   34										
WHPE   37	WEEL	34	0.99	40.76	54.57	1.20	0.73	0.85	1.89	100
Consent Decree (3)  Class I Areal No. of Days > 0.5 dy 98th Percentile  ARCH 47 1.69 33.57 62.13 1.88 0.48 0.48 1.46 100  BAND 49 1.04 30.40 66.83 1.26 0.32 0.32 0.23 10.07 100  BLCA 26 0.95 37.13 76.66 2.28 0.58 0.58 1.76 100  CANY 67 2.26 55.66 38.57 2.53 0.65 0.62 1.98 100  CARY 67 2.26 55.66 38.57 2.53 0.65 0.62 1.98 100  CARY 67 2.26 55.66 38.57 2.53 0.65 0.62 1.98 100  CARY 67 2.26 55.66 38.57 2.53 0.65 0.62 1.98 100  GRCA 12 0.97 38.14 55.75 0.93 0.24 0.19 0.75 100  GRCA 12 0.97 38.14 55.75 0.93 0.24 0.19 0.75 100  GRCA 12 0.97 38.14 55.75 0.93 0.24 0.19 0.75 100  CRSA 14 0.63 38.62 54.18 3.18 0.81 0.53 2.47 100  CRSA 14 0.63 38.62 54.18 3.18 0.81 0.53 2.47 100  CRSA 14 0.53 38.62 54.18 3.18 0.81 0.53 2.47 100  CRSA 14 0.53 38.62 59.80 0.81 0.21 0.15 0.65 100  MAGE 10 0.54 69.46 25.41 2.29 0.59 0.43 1.83 10.8  MEVE 157 3.38 75.99 9.44 0.20 1.80 2.09 44.22 100  PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 103  FEFO 14 0.82 2.785 9.44 0.62 1.80 0.25 9.92 100  SAPE 93 1.40 38.98 53.93 2.71 0.69 0.68 2.09 100  WEEL 19 0.80 3.76 6.052 0.70 0.18 0.19 0.55 100  WEEL 19 0.80 3.76 6.052 0.70 0.18 0.19 0.55 100  WEEL 19 0.80 3.76 6.052 0.70 0.18 0.19 0.55 100  WEEL 37 0.75 30.82 66.88 0.02 0.11 0.04 0.77 1.11 100  BAND 48 0.94 85.65 8.21 0.56 0.68 0.56 0.20 1.00 100  SCR (2)  Class I Area No. of Days > 0.5 dy 98th Percentile % SO4 %, NO3 %, OC % EC %, PMC %, PMF %, Total ARCH 50 0.73 1.9 0.05 100  CANY 77 2.33 89.44 5.07 2.44 0.68 0.72 1.88 100  CANY 77 2.33 89.44 0.27 2.55 0.68 0.56 0.20 100  WEEL 14 0.06 0.06 9.77.8 16.37 1.17 1.00  BAND 48 0.94 85.65 8.21 2.55 0.68 0.56 0.20 1.00 100  CANY 77 2.23 8.89 4.9 5.07 2.40 0.81 0.58 1.17 1.10 0.00  CANY 77 2.23 8.89 4.9 5.07 2.40 0.81 0.59 0.59 100  CANY 77 2.23 8.89 4.9 5.07 2.40 0.81 0.58 1.17 1.10 0.00  CANY 77 2.38 8.94 8.50 0.92 2.11 0.54 0.80 0.56 0.68 1.17 1.10 0.00  CANY 77 2.23 8.89 4.9 5.07 2.40 0.81 0.58 0.56 0.68 1.10 1.00  CANY 77 2.23 8.89 4.9 5.07 2.40 0.81 0.58 0.59 0.00 1.00  CANY 77 2.24 4.9 4.9 5.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
Class   Area   No. of Days > 0.5 dd   98th Percentile   % SO4   % NO3   % OC   % EC   % PMC   % PMF   % Total   ARCH   47   1.69   33.67   62.13   1.88   0.48   0.48   1.46   100	WHPE	37	1.00	32.06	63.10	1.28	0.78	0.76	2.02	100
ARCH									,	
BAND 49 1.04 30.40 66.83 1.126 0.32 0.23 0.97 100 BLCA 26 0.95 37.13 57.66 2.28 0.58 0.58 1.76 100 CANY 67 2.26 5.566 38.57 2.53 0.65 0.62 1.98 100 CANY 67 2.26 5.566 38.57 2.53 0.65 0.62 1.98 100 GRCA 12 0.97 38.14 59.75 0.93 0.24 0.19 0.48 1.49 100 GRCA 12 0.97 38.14 59.75 0.93 0.24 0.19 0.45 1.49 100 GRCA 12 0.97 38.14 59.75 0.93 0.24 0.19 0.75 100 GRSA 14 0.63 38.82 54.16 3.18 0.81 0.53 2.47 100 LAGA 20 0.86 38.38 59.80 0.81 0.21 0.15 0.65 100 MABE 10 0.54 69.46 25.41 2.29 0.59 0.43 1.83 100 MEVE 157 3.38 75.39 9.84 6.26 1.00 2.09 4.82 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.15 28.74 65.59 2.44 0.62 0.70 1.88 100 WEEL 19 0.80 37.76 50.62 0.70 0.18 0.19 0.55 100 WEIM 53 1.15 28.74 65.59 2.44 0.62 0.72 1.88 100 WHEEL 19 0.80 37.76 50.62 0.70 0.18 0.19 0.55 100 WEIM 53 1.15 28.74 65.59 2.44 0.62 0.72 1.88 100 WHEEL 23 0.82 8.84 8.85 8.21 2.65 0.88 0.55 0.23 1.06 100 BLCA 23 0.82 81.07 12.57 2.66 0.88 0.57 2.05 100 BLCA 23 0.82 81.07 12.57 2.66 0.88 0.57 2.05 100 BLCA 23 0.82 81.07 12.57 2.66 0.88 0.57 2.05 100 BLCA 23 0.82 81.07 12.57 2.66 0.88 0.57 2.05 100 GRSA 10 0.59 9.35 3 2.88 1.67 0.43 0.44 1.29 100 GRSA 10 0.59 9.35 3 2.88 1.67 0.43 0.44 1.29 100 GRSA 10 0.59 9.35 2.24 0.55 0.68 0.57 2.05 100 GRSA 10 0.59 9.35 2.88 9.49 1.90 1.53 0.99 0.33 1.20 100 WEM 14 1.29 9.45 9.45 1.90 1.53 0.99 0.33 1.20 100 WEM 14 1.29 9.45 9.45 1.90 1.53 0.99 0.33 1.20 100 WEM 14 1.29 100 0.59 9.35 2.88 1.67 0.43 0.44 1.29 100 GRSA 10 0.59 9.35 2.88 1.67 0.43 0.44 1.29 100 GRSA 10 0.59 9.35 2.88 1.67 0.43 0.44 1.29 100 GRSA 10 0.59 9.35 2.88 9.46 5.07 2.40 0.61 0.58 1.87 100 GRSA 10 0.59 9.35 2.88 1.67 0.43 0.44 0.33 1.30 1.00 0.68 1.80 1.90 100 GRSA 10 0.59 9.35 2.88 9.46 5.07 0.44 0.50 0.58 1.87 100 GRSA 10 0.59 9.35 2.88 9.46 0.50 0.68 0.55 0.68 1.90 100 GRSA 10 0.59 9.35 2.88 9.46 0.50 0.68 0.55 0.68 1.90 100 GRSA 10 0.59 9.53 2.88 9.46 0.50 0.68 0.59 0.5										
BLCA         26         0.95         37.13         57.66         2.28         0.58         0.58         1.76         100           CANY         67         2.26         55.66         25.56         0.62         1198         100           CANE         28         1.81         52.95         42.68         1.91         0.49         0.48         1.49         100           GRCA         12         0.97         38.14         59.75         0.93         0.24         0.19         0.75         100           GRSA         14         0.63         38.82         54.18         3.18         0.61         0.53         2.47         100           LAGA         20         0.86         38.28         54.18         3.18         0.61         0.21         0.15         0.65         100           MAEE         10         0.54         69.48         25.41         2.29         0.59         0.43         1.83         100           MAEE         10         0.55         0.03         3.76         69.46         25.41         2.29         0.59         0.43         1.83         100           MEEO         14         0.82         2.795         69.41										
CANY 67										
CARE         28         1.81         52.95         42.68         1.91         0.49         0.48         1.49         100           GRCA         12         0.97         38.14         59.75         0.93         0.24         0.19         0.75         100           GRSA         14         0.63         38.82         54.18         3.18         0.81         0.21         0.015         0.055         100           MABE         10         0.54         69.48         25.41         2.29         0.59         0.43         1.83         100           MEVE         157         3.38         75.39         9.84         6.26         1.60         2.09         4.82         100           MEVE         157         3.38         75.39         9.84         6.26         1.60         2.09         4.82         100           PEFO         14         0.82         27.95         69.41         1.18         0.30         0.25         0.92         100           WEBI         93         1.40         3.98         33.93         2.71         0.69         0.88         2.09         100           WEBI         93         1.15         2.67         46.18 <td></td>										
GRCA 12 0.97 39.14 59.75 0.93 0.24 0.19 0.75 100 GRSA 14 0.63 38.26 54.18 3.18 0.81 0.83 2.47 100 LAGA 20 0.86 38.38 59.80 0.81 0.21 0.15 0.65 100 MABE 10 0.54 69.48 25.41 2.29 0.59 0.43 1.83 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 PECO 35 1.05 80.51 15.41 1.83 0.47 0.36 1.43 100 SAPE 93 1.40 39.89 53.93 2.71 0.69 0.68 2.09 100 SAPE 93 1.40 39.89 53.93 2.71 0.69 0.68 2.09 100 WEEL 19 0.80 37.76 60.62 0.70 0.18 0.19 0.55 100 WHPE 27 0.75 30.82 66.18 1.36 0.35 0.23 1.06 100 WHPE 27 0.75 30.82 66.18 1.36 0.35 0.23 1.06 100 BAND 46 0.94 85.95 0.22 2.11 0.54 0.37 1.71 100 BAND 48 0.94 85.95 0.22 2.11 0.54 0.37 1.71 100 GRCA 11 0.73 85.62 2.92 2.40 0.65 0.66 0.66 0.67 2.05 100 GRAA 10 0.88 99.33 3.73 2.54 0.65 0.66 0.66 0.67 2.05 100 GRAA 11 0.73 85.62 2.92 2.44 0.65 0.66 0.66 0.67 2.05 100 GRAA 11 0.73 85.62 2.24 0.57 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 2.24 0.57 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 2.24 0.57 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 1.24 0.55 0.57 0.42 1.77 100 GRSA 10 0.88 93.53 2.88 1.67 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 9.25 2.24 0.65 0.66 0.66 1.99 100 GRCA 11 0.73 85.62 9.25 2.24 0.65 0.66 0.66 0.67 2.05 100 GRCA 11 0.73 85.62 9.25 2.24 0.65 0.66 0.66 1.99 100 GRCA 11 0.73 85.62 9.25 2.24 0.67 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 9.75 0.75 0.42 1.77 100 GRSA 10 0.68 93.53 2.68 1.67 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 9.75 1.81 2.34 0.60 0.58 1.87 100 GRCA 11 0.73 85.62 9.25 2.24 0.57 0.42 1.75 100 GRCA 11 0.73 85.62 9.25 2.24 0.57 0.42 1.77 100 GRSA 10 0.68 93.53 2.88 1.67 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 9.25 2.24 0.57 0.42 1.77 100 GRSA 10 0.68 93.53 2.68 1.67 0.43 0.41 1.29 100 GRCA 11 0.73 85.62 9.25 0.25 0.25 0.27 0.42 1.77 100 GRCA 11 0.73 85.62 9.25 0.25 0.25 0.27 0.42 1.77 100 GRCA 11 0.73 85.62 9.25 0.25 0.25 0.25 0.22 0.24 0.99 100 GRCA 11 0.79 8.38 9.38 0.63 0.60 0.68 0.50 1.87 100 GRCA 11 0.79 9.241 84.50 0.04 9.85 1.77 1.71 100 GRCA 11 0.79 0.72 9.78 10.79 1.77 1.70 0.70 0.70 0.70 0.70 0.70 1.80 1.00 1.00 0.			<del></del>							+
GRSA										
LAGA   20										
MEVE		20	0.86							
PECO 35			0.54	69.46	25.41	2.29	0.59	0.43	1.83	100
PEFO										
SAPE										
WEEL   19										
WEMI   53										
WHPE										
SCR (2)   Class   Area   No. of Days > 0.5 dv   98th Percentile   %   SO4   %   NO3   %   OC   %   EC   %   PMC   %   PMF   %   Total   ARCH   50   1.72   94.35   0.92   2.11   0.54   0.37   1.71   100   BAND   48   0.94   85.85   8.21   2.65   0.68   0.66   2.06   100   BLCA   23   0.82   81.07   12.87   2.66   0.68   0.67   2.05   100   CANY   777   2.38   89.46   5.07   2.40   0.61   0.58   1.87   100   GRCA   111   0.73   85.62   9.25   2.24   0.57   0.54   1.77   100   GRSA   10   0.58   93.53   2.68   1.67   0.43   0.41   1.29   100   LAGA   13   0.62   94.70   0.31   2.25   0.57   0.42   1.75   100   MABE   5   0.42   94.65   1.90   1.53   0.39   0.33   1.20   100   MEVE   174   5.34   93.13   1.46   2.33   0.60   0.68   1.80   100   PEFO   13   0.73   92.85   1.81   2.34   0.60   0.58   1.81   100   SAPE   93   1.73   89.63   1.59   3.83   0.98   1.02   2.95   100   WHEII   14   0.64   91.43   1.42   1.33   100   WHEII   14   0.64   91.43   1.42   1.33   1.34   100   WHEII   14   0.64   91.43   1.73   0.44   0.33   1.34   100   MID   MI										
Class   Area   No. of Days > 0.5 dv   98th   Percentile   %   SO4   %   NO3   %   OC   %   EC   %   PMC   %   PMF   %   Total   ARCH   50   1.72   94.35   0.92   2.11   0.54   0.37   1.71   100     BAND					1				1	1
ARCH   50										
BAND										
BLCA 23 0.82 81.07 12.87 2.66 0.68 0.67 2.05 100 CANY 77 2.38 89.46 5.07 2.40 0.61 0.58 1.87 100 CARE 27 1.43 90.43 3.73 2.54 0.65 0.66 1.99 100 GRCA 11 0.73 85.62 9.25 2.24 0.57 0.54 1.77 100 GRSA 10 0.58 93.53 2.68 1.67 0.43 0.41 1.29 100 LAGA 13 0.62 94.70 0.31 2.25 0.57 0.42 1.75 100 MABE 5 0.42 94.65 1.90 1.53 0.39 0.33 1.20 100 MEVE 174 5.34 93.13 1.46 2.33 0.60 0.68 1.80 100 PECO 30 0.86 88.59 7.59 1.71 0.44 0.35 1.33 100 PEFO 13 0.73 92.85 1.81 2.34 0.60 0.58 1.81 100 SAPE 93 1.73 89.63 1.59 3.83 0.98 1.02 2.95 100 WELL 14 0.64 91.43 4.42 1.84 0.47 0.37 1.46 100 WEM 44 1.14 83.29 13.93 1.24 0.32 0.24 0.99 100 WHPE 19 0.69 79.78 16.37 1.73 0.44 0.33 1.34 100 Hybrid (1) Class I Area No. of Days > 0.5 dv 98th Percentile % SO4 % NO3 % OC % EC % PMC % PMF % Total ARCH 54 1.75 88.81 7.39 2.56 0.65 0.58 2.01 100 BAND 51 1.03 72.28 22.33 2.41 0.61 0.50 1.82 100 EARCH 10 0.50 1.82 100 EARCH 11 0.84 0.72 73.17 2.04 0.72 73.33 0.77 1.00 0.72 73.17 2.04 0.72 73.17 2.04 0.72 0.72										
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LAGA										
MABE         5         0.42         94.65         1.90         1.53         0.39         0.33         1.20         100           MEVE         174         5.34         93.13         1.46         2.33         0.60         0.68         1.80         100           PECO         30         0.85         88.59         7.59         1.71         0.44         0.35         1.33         100           PEFO         13         0.73         92.85         1.81         2.34         0.60         0.58         1.81         100           SAPE         93         1.73         89.63         1.59         3.83         0.98         1.02         2.95         100           WEEL         14         0.64         91.43         4.42         1.84         0.47         0.37         1.46         100           WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WPDId (1)         100         0.69         79.78         16:37         1.73         0.44         0.33         1.34         100           Hybrid (1)         100         100         1.00         1.00         1.00<										
PECO         30         0.85         88.59         7.59         1.71         0.44         0.35         1.33         100           PEFO         13         0.73         92.85         1.81         2.34         0.60         0.58         1.81         100           SAPE         93         1.73         89.63         1.59         3.83         0.98         1.02         2.95         100           WEEL         14         0.64         91.43         4.42         1.84         0.47         0.37         1.46         100           WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WHPE         19         0.69         79.78         16:37         1.73         0.44         0.33         1.34         100           Hybrid (1)           Class I Area No. of Days > 0.5 dV 98th Percentile         % SO4         % NO3         % OC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.	MABE	5	0.42	94.65						
PEFO         13         0.73         92.85         1.81         2.34         0.60         0.58         1.81         100           SAPE         93         1.73         89.63         1.59         3.83         0.98         1.02         2.95         100           WEL         14         0.64         91.43         4.42         1.84         0.47         0.37         1.46         100           WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WHPE         19         0.69         79.78         16.37         1.73         0.44         0.33         1.34         100           Hybrid (1)           Class I Area No. of Days > 0.5 dv 98th Percentile         % SO4         % NO3         % OC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.				93.13		2,33	0.60		1.80	
SAPE         93         1.73         89.63         1.59         3.83         0.98         1.02         2.95         100           WEEL         14         0.64         91.43         4.42         1.84         0.47         0.37         1.46         100           WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WHPE         19         0.69         79.78         16:37         1.73         0.44         0.33         1.34         100           Hybrid (1)           Class I Area No. of Days > 0.5 dv 98th Percentile         %_SO4         %_NO3         %_OC         %_EC         %_PMC         %_PMF         %_Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79			<b></b>							
WEEL         14         0.64         91.43         4.42         1.84         0.47         0.37         1.46         100           WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WHPE         19         0.69         79.78         16.37         1.73         0.44         0.33         1.34         100           Hybrid (1)           Class I Area         No. of Days > 0.5 dV 98th Percentile         % NO3         % NO3         % CC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CARY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           GRCA         11										
WEMI         44         1.14         83.29         13.93         1.24         0.32         0.24         0.99         100           WHPE         19         0.69         79.78         16:37         1:73         0.44         0.33         1:34         100           Hybrid (1)           Class I Area No. of Days > 0.5 dV 98th Percentile         % SO4         % NO3         % OC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14 <t< td=""><td></td><td></td><td></td><td>  89.63</td><td>ı 1.59</td><td></td><td></td><td>1.02</td><td>2.95</td><td>I 100 l</td></t<>				89.63	ı 1.59			1.02	2.95	I 100 l
WHPE         19         0.69         79.78         16.37         1.73         0.44         0.33         1.34         100           Hybrid (1)           Class I Area No. of Days > 0.5 dv 98th Percentile         % SO4         % NO3         % OC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           GARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79	VVEEL			Souther Control of the Control						
Hybrid (1)  Class I Area No. of Days > 0.5 dv 98th Percentile %_SO4	11/51/41		· · · · · · · · · · · · · · · · · · ·	~~~~	4.42	1,84	0.47	0.37	1.46	100
Class I Area         No. of Days > 0.5 dv         98th Percentile         % SO4         % NO3         % OC         % EC         % PMC         % PMF         % Total           ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           CARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38	WEMI	44	1.14	83.29	4.42 13.93	1.84 1.24	0.47 0.32	0.37 0.24	1.46 0.99	100 100
ARCH         54         1.75         86.81         7.39         2.56         0.65         0.58         2.01         100           BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           CARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52	WEMI	44	1.14	83.29	4.42 13.93	1.84 1.24	0.47 0.32	0.37 0.24	1.46 0.99	100 100
BAND         51         1.03         72.28         22.33         2.41         0.61         0.50         1.87         100           BLCA         25         0.91         66.97         27.65         2.36         0.60         0.60         1.82         100           CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           CARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55	WEMI WHPE Hybrid (1)	44	1.14 0.69	83.29 79.78	4.42 13.93 16.37	1.84 1.24 1.73	0.47 0.32 0.44	0.37 0.24 0.33	1.46 0.99 1.34	100 100 100
CANY         79         2.41         84.50         10.46         2.19         0.56         0.58         1.71         100           CARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51.23         46.41         1.02	WEMI WHPE  Hybrid (1) Class I Area	44 19 No. of Days > 0.5 dv	1.14 0.69 98th Percentile	83.29 79.78 %_SO4	4.42 13.93 16.37	1.84 1.24 1.73	0.47 0.32 0.44 %_EC	0.37 0.24 0.33	1.46 0.99 1.34 %_PMF	100 100 100 
CARE         29         1.67         54.89         43.68         0.63         0.16         0.12         0.52         100           GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51:23         46:41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18	WEMI WHPE  Hybrid (1) Class I Area ARCH	44 19 No. of Days > 0.5 dv 54	1.14 0.69 98th Percentile 1.75	83.29 79.78 %_SO4 86.81	4.42 13.93 16.37 %_NO3 7.39	1.84 1.24 1.73 %_OC 2.56	0.47 0.32 0.44 %_EC 0.65	0.37 0.24 0.33 %_PMC 0.58	1.46 0.99 1.34 %_PMF 2.01	100 100 100 100 %_Total 100
GRCA         11         0.87         60.05         37.58         1.05         0.27         0.22         0.84         100           GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51:23         46:41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42:36         0.77	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA	44 19 No. of Days > 0.5 dv 54 51 25	98th Percentile 1.75 1.03 0.91	83.29 79.78 %_SO4 86.81 72.28 66.97	4.42 13.93 16.37 %_NO3 7.39 22.33 27.65	1.84 1.24 1.73 %_OC 2.56 2.41 2.36	0.47 0.32 0.44 %_EC 0.65 0.61 0.60	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82	100 100 100 100 100 100 100
GRSA         14         0.72         73.17         20.08         3.08         0.79         0.51         2.38         100           LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51.23         46:41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY	44 19 No. of Days > 0.5 dv 54 51 25 79	1.14 0.69 98th Percentile 1.75 1.03 0.91 2.41	83.29 79.78 %_SO4 86.81 72.28 66.97 84.50	4.42 13.93 16.37 %_NO3 7.39 22:33 27.65 10.46	1,84 1,24 1,73 %_OC 2,56 2,41 2,36 2,19	0.47 0.32 0.44 %_EC 0.65 0.61 0.60	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60	1,46 0.99 1,34 %_PMF 2.01 11.87 1.82	100 100 100 100 100 100 100 100
LAGA         16         0.79         46.38         50.73         1.26         0.32         0.33         0.97         100           MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51.23         46.41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE	44 19 No. of Days > 0.5 dv 54 51 25 79 29	98th Percentile 1.75 1.03 0.91 2.41 1.67	83.29 79.78 %_SO4 86.81 72.28 66.97 84.50 54.89	4.42 13.93 16.37 %_NO3 7.39 22.33 27.65 10.46 43.68	1,84 1,24 1,73 9_OC 2,56 2,41 2,36 2,19 0,63	0.47 0.32 0.44 	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60 0.58 0.12	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52	100
MABE         9         0.53         62.93         33.71         1.52         0.39         0.27         1.19         100           MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51.23         46.41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA	44 19 No. of Days > 0.5 dv 54 51 25 79 29	1.14 0.69 98th Percentile 1.75 1.03 0.91 2.41 1.67	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05	4.42 13.93 16.37 %_NO3 7.39 22.33 27.65 10.46 43.68 37.58	**Section 1.84*** 1.24*** 1.73**  **_OC** 2.56** 2.41** 2.36** 2.19** 0.63** 1.05**	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60 0.58 0.12	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84	**Total 100 100 100 100 100 100 100 100 100 10
MEVE         174         5.17         90.57         3.81         2.43         0.62         0.70         1.88         100           PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51:23         46:41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11	1.14 0.69 98th Percentile 1.75 1.03 0.91 2.41 1.67 0.87	83.29 79.78 %_SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17	4.42 13.93 16:37 % NO3 7.39 22:33 27.65 10.46 43.68 37:58 20.08	**Noc	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38	100
PECO         37         0.93         77.26         19.26         1.55         0.40         0.32         1.21         100           PEFO         14         0.79         51.23         46.41         1.02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11 14	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.87 0.72 0.79	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38	4.42 13.93 16:37 % NO3 7.39 22:33 27.65 10.46 43.68 37:58 20.08 50:73	1.84 1.24 1.73 % OC 2.56 2.41 2.36 2.19 0.63 1.05 3.08 1.26	0.47 0.32 0.44 % EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79	0.37 0.24 0.33 % PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97	#_Total
PEFO         14         0.79         51:23         46:41         1:02         0.26         0.29         0.79         100           SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55:94         42:36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56:13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11, 14 16 9	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.87 0.72 0.79 0.53	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93	4.42 13.93 16:37 % NO3 7.39 22:33 27.65 10:46 43.68 37:58 37:58 50:73 33.71	**Section 1.52**  **Section 1.24**  **Section 1.73**  **Section 1.	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79 0.32	0.37 0.24 0.33 % PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51 0.33 0.27	** PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19	100
SAPE         102         1.69         88.26         6.70         2.18         0.56         0.63         1.68         100           WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE	No. of Days > 0.5 dv 54 51 25 79 29 11 14 16 9	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.87 0.72 0.79 0.53 5.17	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93 90.57	4.42 13.93 16.37 % NO3 7.39 22.33 27.65 10.46 43.68 37.58 20.08 50.73 33.71 3.81	1.84 1.24 1.73 9_OC 2.56 2.41 2.36 2.19 0.63 1.05 3.08 1.26 1.52 2.43	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79 0.32 0.39	0.37 0.24 0.33 %_PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51 0.33 0.27	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19 1.88	100   100
WEEL         19         0.72         55.94         42.36         0.77         0.20         0.13         0.61         100           WEMI         52         1.17         56.13         39.71         1.82         0.46         0.47         1.41         100	WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11 14 16 9 174 37	1.14 0.69 498th Percentile 1.75 1.03 0.91 2.41 1.67 0.87 0.72 0.79 0.53 5.17 0.93	% SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93 90.57 77.26	4.42 13.93 16.37 %_NO3 7.39 22.33 27.65 10.46 43.68 37.58 20.08 50.73 33.71 3.81 19.26	% OC 2.56 2.41 2.36 2.19 0.63 1.26 1.52 2.43 1.55	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79 0.32 0.39 0.62 0.40	%_PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51 0.33 0.27 0.70 0.32	1.46 0.99 1.34 % PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19 1.88 1.21	100 100 100 100 100 100 100 100 100 100
WEMI 52 1.17 56.13 39.71 1.82 0.46 0.47 1.41 100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO PEFO	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11 14 16 9 174 37 14	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.72 0.79 0.53 5.17 0.93 0.79	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93 90.57 77.26 51.23	4.42 13.93 16.37 % NO3 7.39 22.33 27.65 10.46 43.68 37.58 20.08 50.73 33.71 33.81 19.26 46.41	% OC 2.56 2.41 2.36 2.19 0.63 1.05 3.08 1.26 1.52 2.43 1.55 1.02	% EC 0.65 0.61 0.60 0.27 0.79 0.32 0.39 0.62 0.40 0.26	0.37 0.24 0.33 % PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51 0.33 0.27 0.70 0.32	1.46 0.99 1.34 % PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19 1.88 1.21 0.79	#_Total
WHPE 23 0.81 81.91 13.74 1.94 0.49 0.41 1.51 100	WEMI WHPE  Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO PEFO SAPE	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11 14 16 9 174 37 14 102	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.72 0.79 0.53 5.17 0.93 0.79 1.69	83.29 79.78 %_SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93 90.57 77.26 51.23 88.26	4.42 13.93 16.37 % NO3 7.39 22.33 27.65 10.46 43.68 37.58 20.08 50.73 33.71 3.81 19.26 46.41 6.70	% OC 2.56 2.41 2.36 2.19 0.63 1.05 3.08 1.26 1.55 1.05 2.18	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.16 0.27 0.79 0.32 0.39 0.62 0.40 0.26 0.56	% PMC 0.58 0.50 0.60 0.58 0.12 0.22 0.51 0.33 0.27 0.70 0.32 0.29 0.63	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19 1.88 1.23 1.71 0.79	100
The state of the s	WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO PEFO SAPE WEEL WEMI	44 19 No. of Days > 0.5 dv 54 51 25 79 29 11 14 16 9 174 37 14 102 19 52	98th Percentile 1.75 1.03 0.91 2.41 1.67 0.87 0.72 0.79 0.53 5.17 0.93 0.79 1.69	83.29 79.78 % SO4 86.81 72.28 66.97 84.50 54.89 60.05 73.17 46.38 62.93 90.57 77.26 51.23 88.26 55.94	4.42 13.93 16.37 % NO3 7.39 22.33 27.65 10.46 43.68 37.58 20.08 50.73 33.71 3.81 19.26 46.41 6.70 42.36	1.84 1.24 1.73 9 OC 2.56 2.41 2.36 2.19 0.63 1.05 3.08 1.26 1.55 2.43 1.55 1.02 2.18	0.47 0.32 0.44 %_EC 0.65 0.61 0.60 0.56 0.27 0.79 0.32 0.39 0.62 0.40 0.26 0.56 0.56	0.37 0.24 0.33 0.58 0.50 0.60 0.58 0.50 0.60 0.58 0.22 0.51 0.33 0.27 0.70 0.32 0.27 0.70 0.32	1.46 0.99 1.34 %_PMF 2.01 1.87 1.82 1.71 0.52 0.84 2.38 0.97 1.19 1.88 1.21 0.79 1.68	100 100 100 100 100 100 100 100 100 100

2002	BART Modeling ackground and Nitrate	Repartitioning							
Pre-Consent									
	No. of Days > 0.5 d		%_SO4_	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH BAND	46 87	1.76 1.86	43.87 44.28	46.41 49.89	2.37 1.45	1.45 0.89	2.20 1.18	3.70 2.31	100 100
BLCA	54	1.34	35.37	59.23	1.36	0.83	1.04	2.17	100
CANY	67	2.04	83.50	1.79	3.67	2.25	3.05	5.74	100
CARE	24	1,16	33.88	63.47	0.67	0.41	0.49	1.09	100
GRCA	15	0.93	89.85	2.03	2.09	1.28	1.45	3,30	100
GRSA	28	1.00	82.39	12.99	1.20	0.73	0.78	1.90	100
LAGA MABE	63 20	1.30 0.78	81.37 28.96	13.32 63.27	1.40 2.15	0.86 1.32	0.81 0.80	2,24 3,49	100 100
MEVE	184	4.09	34,40	60.73	1,18	0.72	1,11	1.87	100
PECO	62	1.33	53.02	40.33	1.81	1.11	0.89	2.85	100
PEFO	16	0.79	90.95	1.94	1.81	1.11	1.31	2.89	100
SAPE	125	2.37	71.74	23.38	1.23	0.75	0.94	1.96	100
WEEL	43	1.15	35.15	60,78	1.03	0.63	0.76	1.65	100
WEMI	117 40	1.85 0.95	57.89	29.83	2.89 1.67	1.77	3.13	4.49	100 100
WHPE		J 0.95	55,69	38.20	1.07	1.02	0.74	2.67	] 100
Consent Dec	cree (3) No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	% EC	% PMC	%_PMF	% Total
ARCH	32	1.65	49.70	47.38	1.28	0.33	0.30	1.01	100
BAND	61	1.56	37.39	59.91	1.19	0.30	0.27	0,93	100
BLCA	30	1.15	31.11	65.99	1.28	0.33	0.28	1.02	100
CANY	57	1.73	52.51	43.96	1.55	0.40	0.35	1.23	100
CARE	18	0.82	91.30	1.66	3.11	0.79	0.69	2.46	100
GRCA GRSA	10 17	0.76 0.71	44,30 28.48	54.26 69.87	0,64 0.74	0,16 0,19	0,12 0,13	0.52 0.60	100 100
LAGA	40	0.94	26.32	71.29	1.07	0.13	0.13	0.84	100
MABE	11	0.56	84.39	12.71	1.31	0.33	0.23	1.03	100
MEVE	162	3.53	85.08	5.44	4.14	1.06	1.04	3.24	100
PECO	41	1.09	41.87	56.64	0.66	0.17	0.13	0.53	100
PEFO	9	0,60	28.65	69.64	0.76	0.19	0.13	0.62	100
SAPE	109	2.01	46.15	47.36	2.82	0.72	0.76	2.19	100
WEEL	24 83	0.91 1.48	30.66 57.20	67,44 35.77	0,86 3.02	0,22 0.77	0.14 0.91	0,68 2.32	100 100
WHPE	20	0,86	47,51	47.27	2.35	0.60	0.43	1.84	100
SCR (2)									
	No. of Days > 0.5 dv	98th Percentile	%_SO4	% NO3	% OC	% EC	%_PMC	%_PMF	%_Total
ARCH	37	1.41	86.10	10.46	1.51	0.39	0.36	1.20	100
BAND	58	1.30	81.38	16.06	1.14	0,29	0.23	0.90	100
BLCA	26	0.83	76.99	18.90	1.81	0.46	0.39	1.44	100
CANY CARE	59 13	1.73 0.76	91.73 95.94	1.93 0.19	2.72 1.73	0,69 0.44	0.83 0.35	2.09	
GRCA	11	0.60						1 26	100
GRSA	19/24/06/25/94/26/06/26/27 \$ 1 \$ 45/26/09/25/27/26/25/46/25		2228 X ( 1: 45 1000)	16 20				1.36	100
LAGA	9		80.95 71.96	16.20 25.33	1.26	0.32	0.24	1.03	100 100
となるなでしていることを表現	9 24	0.55 0.70	71.96 94.09	16.20 25.33 2.99					100
MABE	24	0.55 0.70 0.42	71.96 94.09 81.39	25.33 2.99 13.63	1.26 1.21 1.32 2.25	0.32 0.31 0.34 0.57	0.24 0.22 0.23 0.39	1.03 0.97 1.04 1.77	100 100 100 100 100
MABE MEVE	24 4 187	0.55 0.70 0.42 5.32	71.96 94.09 81.39 92.89	25.33 2.99 13.63 0.87	1.26 1.21 1.32 2.25 2.67	0.32 0.31 0.34 0.57 0.68	0.24 0.22 0.23 0.39 0.83	1,03 0,97 1,04 1,77 2,06	100 100 100 100 100 100
MABE MEVE PECO	24 4 187 33	0.55 0.70 0.42 5.32 0.99	71.96 94.09 81.39 92.89 85.79	25.33 2.99 13.63 0.87 9.66	1.26 1.21 1.32 2.25 2.67 2.10	0.32 0.31 0.34 0.57 0.68 0.54	0.24 0.22 0.23 0.39 0.83 0.29	1,03 0,97 1,04 1,77 2,06 1,63	100 100 100 100 100 100 100
MABE MEVE PECO PEFO	24 4 187 33 8	0.55 0.70 0.42 5.32 0.99 0.53	71.96 94.09 81.39 92.89 85.79 96.11	25.33 2.99 13.63 0.87 9.66 0.51	1.26 1.21 1.32 2.25 2.67 2.10 1.51	0.32 0.31 0.34 0.57 0.68 0.54 0.39	0.24 0.22 0.23 0.39 0.83 0.29	1.03 0.97 1.04 1.77 2.06 1.63 1.21	100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE	24 4 187 33	0.55 0.70 0.42 5.32 0.99 0.53 2.05	71.96 94.09 81.39 92.89 85.79 96.11 85.01	25.33 2.99 13.63 0.87 9.66 0.51 8.65	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74	1,03 0,97 1,04 1,77 2,06 1,63	100 100 100 100 100 100 100
MABE MEVE PECO PEFO	24 4 187 33 8 102	0.55 0.70 0.42 5.32 0.99 0.53	71.96 94.09 81.39 92.89 85.79 96.11	25.33 2.99 13.63 0.87 9.66 0.51	1.26 1.21 1.32 2.25 2.67 2.10 1.51	0.32 0.31 0.34 0.57 0.68 0.54 0.39	0.24 0.22 0.23 0.39 0.83 0.29	1.03 0.97 1.04 1.77 2.06 1.63 1.21 2.14	100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL	24 4 187 33 8 102 18	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70	0:24 0:22 0:23 0:39 0:83 0:29 0:27 0:74 0:63	1.03 0.97 1.04 1.77 2.06 1.63 1.21 2.14	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1)	24 4 187 33 8 102 18 77 15	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area	24 4 187 33 8 102 18 77 15	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH	24 4 187 33 8 102 18 77 15	0.55 0.70 0.42 5:32 0.99 0.53 2.05 0.66 1.61 0.65	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 % SO4 68.58	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND	24 4 187 33 8 102 18 77 15	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 % SO4 68.58 65.99	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH	24 4 187 33 8 102 18 77 15	0.55 0.70 0.42 5:32 0.99 0.53 2.05 0.66 1.61 0.65	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 % SO4 68.58	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 0.65 98th Percentile 1.59 1.52 1.03	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 %_SO4 68.58 65.99 56.84	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29 % NO3 27.60 30.36 39.89	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 % PMF 1,31 1,27 1,15	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 % SC4 68.58 65.99 56.84 77.17 95.41 62.84	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 % PMF 1,31 1,27 1,15 1,24 1,39	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13	0.55 0.70 0.42 5:32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71	71.96 94.09 81.39 92.89 95.79 96.11 85.01 75.86 85.59 93.52 % SO4 68.58 65.99 56.84 77.17 95.41 62.84 92.69	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.77 1.37	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35	0,24 0,22 0,23 0,39 0,83 0,29 0,27 0,74 0,63 0,25 0,37 % PMC 0,41 0,36 0,31 0,35 0,35 0,35 0,35	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 % PMF 1,31 1,27 1,15 1,24 1,39 1,06 1,08	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34	98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85	71,96 94,09 81,39 92,89 85,79 96,11 85,01 75,86 85,59 93,52 %_SO4 68,58 65,99 56,84 77,17 95,41 62,84 92,69 53,84	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 1.37	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 **EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35 0.35 0.35	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 % PMF 1,31 1,27 1,15 1,24 1,39 1,06 1,08	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9	98th Percentile 1.59 1.03 1.72 0.74 0.71 0.72 0.85 0.65	71,96 94,09 81,39 92,89 96,11 85,01 75,86 85,59 93,52 % SO4 68,58 65,99 56,84 77,7,17 95,41 62,84 92,69 53,84 90,36	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 1.37 1.37	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 *EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35 0.35 0.22 0.31 0.35	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47  , PMF 1,31 1,27 1,15 1,24 1,39 1,06 1,08 0,69 1,03	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE	24 4 187 33 8 102 188 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.85 0.55 5.07	71,96 94,09 81,39 92,89 85,79 96,11 85,01 75,86 85,59 93,52 % SO4 68,58 65,99 56,84 77,17 72,17 62,84 92,69 53,84 90,60	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35 0.22 0.18 0.30 0.30	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 (Marchine) 1,31 1,27 1,15 1,24 1,39 1,06 1,08 1,08 1,03 2,19	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH ARCH GROA GANY CARE GRCA GRSA LAGA MABE MEVE PECO	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9 188 43	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.55 5.07 1.01	71,96 94,09 81,39 92,89 85,79 96,11 85,01 75,86 85,59 93,52 % SO4 68,58 65,99 56,84 77,17 95,41 62,84 92,69 53,84 90,60 90,35	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77 4.34	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 1.37 1.37 2.84 2.43	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35 0.35 0.35 0.40 0.70 0.68 0.54 0.70 0.59 0.31 0.48	0,24 0,22 0,23 0,39 0,83 0,29 0,27 0,74 0,63 0,25 0,37 0,41 0,36 0,31 0,35 0,35 0,35 0,22 0,118 0,30 0,31	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 % PMF 1,31 1,27 1,15 1,24 1,39 1,06 1,08 0,69 1,03 2,19 1,90	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE	24 4 187 33 8 102 188 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.85 0.55 5.07	71,96 94,09 81,39 92,89 85,79 96,11 85,01 75,86 85,59 93,52 % SO4 68,58 65,99 56,84 77,17 72,17 62,84 92,69 53,84 90,60	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35 0.22 0.18 0.30 0.30	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 (Marchine) 1,31 1,27 1,15 1,24 1,39 1,06 1,08 1,08 1,03 2,19	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO PEFO	24 4 187 33 8 102 18 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9 188 43 10	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.55 5.07 1.01 0.56	71,96 94,09 81,39 92,89 85,79 96,11 85,01 75,86 85,59 93,52 %_SO4 68,58 65,99 56,84 77,17 95,41 62,84 92,69 90,36 90,36 90,36	25.33 2.99 13.63 0.87 9.66 0.51 8.65 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77 4.34 46.06	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 1.37 1.37 2.84 2.84 2.43 1.23	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 **EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.35 0.36 0.37 0.40 0.45 0.37 0.40 0.45 0.37 0.40 0.45 0.37 0.40 0.41 0.37 0.40 0.45 0.37 0.40 0.45 0.37 0.40 0.41 0.37 0.40 0.45 0.37 0.40 0.45	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.31 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47  % PMF 1,31 1,27 1,15 1,24 1,39 1,06 1,08 0,69 1,03 2,19 1,90	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH ARCH GRCA GRSA LAGA MABE MEVE PECO PEFO SAPE WEEL WEMI	24 4 187 33 8 102 118 77 15  No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9 188 43 10 111 27 89	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.55 5.07 1.01 0.56 2.14 0.80 1.72	71.96 94.09 81.39 92.89 85.79 96.11 85.01 75.86 85.59 93.52 % SC4 68.58 65.99 56.84 77.17 95.41 62.84 92.69 53.84 90.36 90.35 51.18 75.45 51.82 61.84	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77 4.34 46.06 21.93 44.69 35.59	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 0.87 1.32 2.84 2.43 1.16 1.16	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.59 0.31 0.48 % EC 0.43 0.41 0.37 0.40 0.45 0.35 0.35 0.22 0.34 0.72 0.62 0.31 0.39 0.70	0,24 0,22 0,23 0,39 0,83 0,29 0,27 0,74 0,63 0,25 0,37 0,41 0,36 0,31 0,35 0,35 0,35 0,35 0,22 0,118 0,30 0,88 0,37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 1,31 1,27 1,15 1,24 1,06 1,08 0,69 1,03 2,19 1,90 1,01 0,92 1,18 0,91	100 100 100 100 100 100 100 100 100 100
MABE MEVE PECO PEFO SAPE WEEL WEMI WHPE Hybrid (1) Class I Area ARCH BAND BLCA CANY CARE GRCA GRSA LAGA MABE MEVE PECO PEFO SAPE WEEL	24 4 187 33 8 102 118 77 15 No. of Days > 0.5 dv 37 65 32 58 16 11 13 34 9 188 43 10 111 27	0.55 0.70 0.42 5.32 0.99 0.53 2.05 0.66 1.61 0.65  98th Percentile 1.59 1.52 1.03 1.72 0.74 0.71 0.72 0.85 0.85 5.07 1.01 0.66 2.14 0.80	71,96 94,09 81,39 92,89 95,79 96,11 85,01 75,86 85,59 93,52 % SO4 68,58 65,99 56,84 77,17 95,41 62,84 92,69 53,84 92,69 53,84 92,69 53,84 90,60 90,35 51,18	25.33 2.99 13.63 0.87 9.66 0.51 8.65 18.85 11.64 2.29 % NO3 27.60 30.36 39.89 19.27 0.62 34.03 4.29 44.21 6.66 2.77 4.34 46.06 21.93 44.69	1.26 1.21 1.32 2.25 2.67 2.10 1.51 2.76 2.30 1.23 1.87 % OC 1.67 1.61 1.44 1.57 1.77 1.37 1.37 1.37 2.84 2.43 1.23 1.16 1.23	0.32 0.31 0.34 0.57 0.68 0.54 0.39 0.70 0.70 0.48 **EC 0.43 0.41 0.37 0.40 0.45 0.35 0.22 0.34 0.72 0.62 0.31 0.30 0.30 0.30	0.24 0.22 0.23 0.39 0.83 0.29 0.27 0.74 0.63 0.25 0.37 % PMC 0.41 0.36 0.35 0.35 0.35 0.35 0.35 0.22 0.37	1,03 0,97 1,04 1,77 2,06 1,63 1,21 2,14 1,77 0,98 1,47 1,31 1,27 1,15 1,24 1,39 1,06 1,08 1,03 2,19 1,90 1,01 0,92 1,18	100 100 100 100 100 100 100 100 100 100

Pra-Concent	Dacras	(A)

I IC-Conscii	Decide (4)								
Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	39	1.82	38.16	50.64	2.67	1.63	2.75	4.15	100
BAND	77	1.51	40.84	49.83	2.33	1.43	1.94	3.63	100
BLCA	30	1.40	29.26	67.79	0.76	0.46	0.52	1.21	100
CANY	57	2.00	64.92	31,30	0.94	0.58	0.72	1.53	100
CARE	25	1.34	43.68	49.81	1.57	0.96	1.51	2.47	100
GRCA	11	0.81	91.83	0.94	1.83	1.12	1.34	2.94	100
GRSA	26	0.82	50.03	45.62	1.12	0.68	0.79	1.76	100
LAGA	40	1.14	25.27	67.60	2.02	1.24	0.66	3.22	100
MABE	15	0.63	36.60	57.88	1.53	0.94	0.65	2.41	100
MEVE	174	4.85	69.32	17.06	3.27	2.00	3.22	5.14	100
PECO	63	1.26	49.00	43.40	1.87	1.15	1.66	2.93	100
PEFO	17	0.74	88.02	6.36	1.46	0.90	0.89	2.36	100
SAPE	127	1,96	80.84	9.41	2.36	1.45	2.22	3.73	100
WEEL	31	0.94	25.57	71.56	0.70	0.43	0.61	1.12	100
WEMI	87	1.69	40.63	54.52	1.17	0.72	1.13	1.84	100
WHPE	48	1.05	48.42	48.68	0.78	0.48	0.39	1.25	100

Consent Decree (3)

Consent Dec	ree (3)								
Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	27	1.49	30.95	67.01	0.89	0.23	0.21	0.71	100
BAND	57	1.20	77.97	17.21	2.11	0.54	0.52	1.65	100
BLCA	21	1.07	27.98	70.17	0.82	0.21	0.17	0.65	100
CANY	48	1.68	70.45	24,81	2.07	0.53	0.49	1.65	100
CARE	23	1.05	52.60	45.24	0.94	0.24	0.20	0.77	100
GRCA	9	0,57	93.89	1.17	2.19	0.56	0.46	1.74	100
GRSA	15	0.64	27.42	70.94	0.76	0.19	0.09	0.60	100
LAGA	28	0.90	23.76	71.98	1.99	0,51	0.18	1.58	. 100
MABE	8	0.51	27.63	69.59	1.22	0.31	0.28	0.97	100
MEVE	159	3.80	41.19	53.18	2.41	0.62	0.72	1.88	100
PECO	50	1.00	51.25	46.75	0.89	0.23	0.18	0.70	100
// PEFO	9	0.53	32.43	65.01	1.15	0.29	0.18	0.93	100
SAPE	97	1.56	37.04	56.49	2.78	0.71	0.83	2.15	100
WEEL	22	0.83	28.10	67.91	1.74	0.44	0.44	1.36	100
WEMI	63	1.34	36.23	61.45	1.00	0.26	0.29	0.77	100
WHPE	27	0.89	91.09	5.38	1.60	0.41	0,26	1.25	100

s	CR	(2)

Class I Area	No, of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	33	1.48	82.68	10.62	2.89	0.74	0.84	2.23	100
BAND	54	1.23	90.04	4.35	2.54	0.65	0.43	1.98	100
BLCA	16	0.92	86.11	9.21	2.04	0.52	0.53	1.60	100
CANY	- 51	1.92	93.39	1.65	2.13	0.54	0.65	1.64	100
CARE	22	0.98	81.69	13.72	1.99	0.51	0.54	1.54	100
GRCA	9	0.56	93.81	1.80	1.93	0.49	0.43	1.54	100
GRSA	6	0.47	86.63	9.72	1.63	0.42	0.34	1.27	100
LAGA	17	0.67	73.76	20.28	2.75	0.70	0.25	2.25	100
MABE	3	0.34	79.31	17.67	1.32	0.34	0.32	1.04	100
MEVE	169	6.00	88.68	0,13	4.74	1.21	1.60	3.64	100
PECO	43	0.92	94.42	2.24	1.47	0.38	0.34	1.15	100
PEFO	11	0.55	92.48	3.80	1.66	0.42	0.29	1.34	100
SAPE	102	1.83	94.34	1.46	1.85	0.47	0.44	1.44	100
WEEL	11	0,62	77,34	17,32	2.34	0.60	0.59	1.82	100
WEMI	64	1.45	89.59	2.31	3.46	0.88	1,09	2.66	100
WHPE	18	0,66	83.73	13.71	1.16	0.30	0.18	0.92	100

Hybrid (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	M_PMC	%_PMF	%_Total
ARCH	33	1.61	90.58	4.37	2.23	0.57	0.44	1.81	100
BAND	61	1,27	81.94	12.64	2,46	0.63	0.42	1.91	100
BLCA	18	1.06	85.53	9.51	2.15	0.55	0.59	1.68	100
CANY	54	1,89	90.28	4.66	2.17	0.55	0.66	1.67	100
CARE	22	1,13	66.11	29.95	1.71	0.44	0.47	1.33	100
GRCA	9	0.64	72.51	24.95	1.12	0.29	0.23	0.90	100
GRSA	12	0.58	56.57	40.05	1.52	0.39	0.10	1.37	100
LAGA	23	0.82	70.71	26.11	1.40	0.36	0.32	1.09	100,
MABE	6	0.45	56,85	40.90	0.99	0.25	0.24	0.77	100
MEVE	172	5,55	87.05	0.55	5.25	1.34	1.77	4.04	100
PECO	48	1.00	76.28	20.18	1.61	0.41	0.25	1.27	100
PEFO	10	0.58	85.18	11.26	1.59	0,41	0.28	1.28	100
SAPE	103	1.81	91.07	4.68	1.87	0.48	0.45	1.45	100
WEEL	18	0.74	62.54	33.72	1.63	0.42	0.40	1.29	100
WEMI	69	1.34	80.10	10.76	3.91	1.00	1.14	3.10	100
WHPE	25	0.84	78.02	17.94	1.85	0.47	0.25	1.46	100